STIC Search Report
EIC 1700

USPTO

STIC Database Tracking Number: 144875

TO:	From:
Hoa V Le Location: REM 9D61 Art Unit : 1752 9879 February 22, 2005 Case Serial Number: 10/622493	Usha Shrestha Location: EIC 1700 REMSEN 4B28 Phone: 571/272-3519 usha.shrestha@uspto.gov

Search Notes

sira
Search and Information Resources Administration

STIC Search Results Feedback Form

USPTO

EIC17000

Questions about the scope or the results of the search? Contact ***the EIC searcher or contact:***

Kathleen Fuller, EIC 1700 Team Leader
571/272-2505 REMSEN 4B28

Voluntary Results Feedback Form

- *I am an examiner in Workgroup:* ☐ *Example: 1713*
- *Relevant prior art **found**, search results used as follows:*
  - ☐ 102 rejection
  - ☐ 103 rejection
  - ☐ Cited as being of interest.
  - ☐ Helped examiner better understand the invention.
  - ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
  (journal articles, conference proceedings, new product announcements etc.)

- *Relevant prior art **not found:***
  - ☐ Results verified the lack of relevant prior art (helped determine patentability).
  - ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to EIC1700 REMSEN 4B28

Access DB# 144875

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: HOA VAN LE Examiner #: 60626 Date: 02/10/05
Art Unit: 1752 Phone Number 305(571)272-1332 Serial Number: 10/622,493
Mail Box and Bldg/Room Location: 4 D61 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

SCIENTIFIC REFERENCE BR
Sci. & Tech. Inf. Ctr.
FEB 10
Pat. & T.M. Office

Title of Invention: _____

Inventors (please provide full names): Please see the attachment

Earliest Priority Filing Date: _____

For Sequence Searches Only *Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Please search for the compounds of the general formula I. Please see compounds Y(1-22) on pages 31-33, especially compound Y-1 as specifically elected.

The compound is in an aqueous alkaline solution (pH greater than 7).

Thank you.

****

STAFF USE ONLY	Type of Search		Vendors and cost where applicable	
Searcher: Lisa	NA Sequence (#)		STN	B 88 7 35
Searcher Phone #:	AA Sequence (#)		Dialog	
Searcher Location:	Structure (#)	5	Questel/Orbit	
Date Searcher Picked Up: 2/22/05	Bibliographic		Dr.Link	
Date Completed: 2/22/05	Litigation		Lexis/Nexis	
Searcher Prep & Review Time: 70	Fulltext		Sequence Systems	
Clerical Prep Time: 50	Patent Family		WWW/Internet	
Online Time: 200	Other		Other (specify)	

PTO-1590 (8-01)

CLAIM SUMMARY DOCUMENT

1. (Original) A developer for a photopolymerizable presensitized plate for use in making a lithographic printing plate characterized in that it comprises an alkali silicate and a nonionic compound represented by the following general formula (I), it has a molar ratio: SiO_2/M_2O (wherein M represents an alkali metal or an ammonium group) ranging from 0.75 to 4.0, and a pH value ranging from 11.5 to 12.8:

A-W (I)

wherein A represents a hydrophobic organic group whose logP as determined for A-H is not less than 1.5 and W represents a nonionic hydrophilic organic group whose logP as determined for W-H is less than 1.0.

2. (Original) The developer for a photopolymerizable presensitized plate for use in making a lithographic printing plate of claim 1, wherein the alkali silicate is selected from the group consisting of sodium silicate, potassium silicate, lithium silicate and ammonium silicate.

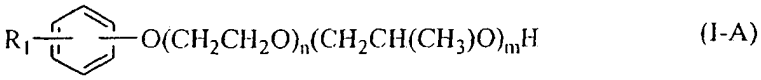
3. (Original) The developer for a photopolymerizable presensitized plate for use in making a lithographic printing plate of claim 1, wherein the molar ratio: SiO_2/M_2O ranges from 1.0 to 3.0.

4. (Original) The developer for a photopolymerizable presensitized plate for use in making a lithographic printing plate of claim 1, wherein the content of the alkali silicate

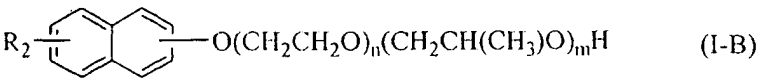
ranges from 0.1 to 3% by weight as expressed in terms of the amount of silicon dioxide (SiO_2).

5. (Original) The developer for a photopolymerizable presensitized plate for use in making a lithographic printing plate of claim 1, wherein the content of the nonionic compound ranges from 0.1 to 15% by weight.

6. (Original) The developer for a photopolymerizable presensitized plate for use in making a lithographic printing plate of claim 1, wherein the nonionic compound is at least one member selected from the group consisting of nonionic aromatic ether type surfactants represented by the following general formula (I-A) and nonionic aromatic ether type surfactants represented by the following general formula (I-B):



(I-A)



(I-B)

wherein R_1 and R_2 each represents H or an alkyl group having 1 to 100 carbon atoms and n and m each represents an integer ranging from 0 to 100, provided that n and m are not simultaneously zero.

7. (Original) The developer for a photopolymerizable presensitized plate for use in making a lithographic printing plate of claim 1, wherein it comprises carbonic acid or a carbonate.

8. (Original) The developer for a photopolymerizable presensitized plate for use in making a lithographic printing plate of claim 1, wherein it comprises an alkaline agent selected from the group consisting of sodium hydroxide, potassium hydroxide, lithium hydroxide, sodium tertiary phosphate, potassium tertiary phosphate, ammonium tertiary phosphate, sodium secondary phosphate, potassium secondary phosphate, ammonium secondary phosphate, sodium carbonate, potassium carbonate, ammonium carbonate, sodium bicarbonate, potassium bicarbonate, ammonium bicarbonate, sodium borate, potassium borate and ammonium borate, potassium citrate, sodium citrate, monomethylamine, dimethylamine, trimethylamine, monoethylamine, diethylamine, triethylamine, monoisopropylamine, diisopropylamine, triisopropylamine, n-butylamine, monoethanolamine, diethanolamine, triethanolamine, monoisopropanolamine, diisopropanolamine, ethyleneimine, ethylenediamine, pyridine, tetramethylammonium hydroxide and mixture thereof.

9. (Original) The developer for a photopolymerizable presensitized plate for use in making a lithographic printing plate of claim 1, wherein it comprises a chelating agent for divalent metals.

10. (Original) The developer for a photopolymerizable presensitized plate for use in making a lithographic printing plate of claim 1, which has a conductivity ranging from 3 to 30 mS/cm.

Claims 11.-26. (Canceled)

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

BIBDATASHEET

Bib Data Sheet

CONFIRMATION NO. 4993

SERIAL NUMBER	FILING DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
10/622,493	07/21/2003 RULE	430	1752	018995-735

APPLICANTS

Hiroyuki Nagase, Shizuoka-Ken, JAPAN;

Kazuto Kunita, Shizuoka-Ken, JAPAN;

** CONTINUING DATA ********** le

This application is a DIV of 10/187,605 07/03/2002 PAT 6,641,980

** FOREIGN APPLICATIONS ********** le

JAPAN 2001-203609 07/04/2001

IF REQUIRED, FOREIGN FILING LICENSE GRANTED
** 04/19/2004

Foreign Priority claimed	STATE OR	SHEETS	TOTAL	INDEPENDENT
☒ yes ☐ no	COUNTRY	DRAWING	CLAIMS	CLAIMS
35 USC 119 (a-d) conditions met ☒ yes ☐ no ☐ Met after Allowance	JAPAN	4	10	1
Verified and Acknowledged Examiner's Signature Initials				

ADDRESS
BURNS, DOANE, SWECKER & MATHIS, L.L.P.
P.O. Box 1404
Alexandria , VA
22313-1404

TITLE
Developer for photopolymerizable presensitized plate for use in making lithographic printing plate

FILING FEE RECEIVED	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue)

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FILE 'REGISTRY' ENTERED AT 13:07:37 ON 22 FEB 2005
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=> d his ful

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                E NAGASE ?/AU
                E E13-
                E NAGASE H/AU
                E NAGASE HIROYUKI/AU
L1             91 SEA ABB=ON  PLU=ON  "NAGASE HIROYUKI"/AU
                E KUNITA KAZUTO/AU
L2            114 SEA ABB=ON  PLU=ON  "KUNITA KAZUTO"/AU
L3              6 SEA ABB=ON  PLU=ON  L1 AND L2
L4              0 SEA ABB=ON  PLU=ON  L3 AND LITHIGRAP?
L5              6 SEA ABB=ON  PLU=ON  L3 AND LITHOGRAP?
L6              4 SEA ABB=ON  PLU=ON  L5 AND PHOTOPOLYMER?
                D SCAN
L7              1 SEA ABB=ON  PLU=ON  L6 AND ALKALI(A)SILICATE
                D SCAN
                SEL L7 RN

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                   107-15-3/BI OR 108-18-9/BI OR 109-73-9/BI OR 109-89-7/B
                   I OR 110-86-1/BI OR 110-97-4/BI OR 111-42-2/BI OR
                   11128-98-6/BI OR 121-44-8/BI OR 124-40-3/BI OR
                   12794-95-5/BI OR 1310-58-3/BI OR 1310-65-2/BI OR
                   1310-73-2/BI OR 1312-76-1/BI OR 1330-43-4/BI OR
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L9                 STR
L10                STR
L11                STR
L12                STR

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L13                SCR 2043
L14              50 SEA SSS SAM (L9 OR L10) AND (L11 OR L12) AND L13
L15          255344 SEA SSS FUL (L9 OR L10) AND (L11 OR L12) AND L13
L16           74546 SEA ABB=ON  PLU=ON  L15 AND 1-2/NC
                   D QUE STAT L16
                   D QUE STAT L15
L17                STR
L18              50 SEA SUB=L16 SSS SAM L17
L19           64759 SEA SUB=L16 SSS FUL L17

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L21            3979 SEA ABB=ON  PLU=ON  L20(L)(PHOTOSENS? OR LIGHTSENS? OR
                   SENSIT?)
L22            1421 SEA ABB=ON  PLU=ON  L21(L)TEM/RL
L23              78 SEA ABB=ON  PLU=ON  L22 AND LITHOGRAPH?(2A)PRINT?
L24              42 SEA ABB=ON  PLU=ON  L22(L)LITHOGRAPH?(2A)PRINT?
L25             273 SEA ABB=ON  PLU=ON  L20(L)LITHOG?(A)PRINT?
L26               1 SEA ABB=ON  PLU=ON  L25 AND L7
L27              17 SEA ABB=ON  PLU=ON  L25 AND (LIGHT OR PHOTO)(A)SENSIT?
L28              24 SEA ABB=ON  PLU=ON  L24 AND DEVELOP?
L29              16 SEA ABB=ON  PLU=ON  L24 AND (SOLUTION? OR SOLN# OR
                   SOLVENT?)
L30              26 SEA ABB=ON  PLU=ON  L28 OR L29
L31              40 SEA ABB=ON  PLU=ON  L30 OR L27 OR L26
L32            3258 SEA ABB=ON  PLU=ON  L20(L)DEVELOP?
L33            2205 SEA ABB=ON  PLU=ON  L32 AND PHOTO?/SC
L34              56 SEA ABB=ON  PLU=ON  L33 AND (LIGHT OR PHOTO)(A)SENSIT?

L35              26 SEA ABB=ON  PLU=ON  L34 AND (SOLUTION? OR SOLN# OR
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L36              25 SEA ABB=ON  PLU=ON  L35 NOT L31
L37               8 SEA ABB=ON  PLU=ON  L36 AND TEM/RL
L38              48 SEA ABB=ON  PLU=ON  L37 OR L31
L39              24 SEA ABB=ON  PLU=ON  L38 AND (ALKALI OR SODIUM OR
                   POTASSIUM OR LITHIUM OR AMMONIUM(A)SILICATE)
                   D QUE L39
L40              65 SEA ABB=ON  PLU=ON  L36 OR L31
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L41          8 SEA ABB=ON  PLU=ON  L40 AND (ALKALI OR SODIUM OR
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               D FHITSTR
L42          1 SEA ABB=ON  PLU=ON  L41 AND L7

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FILE HCAPLUS

FILE REGISTRY
Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

FILE LREGISTRY
LREGISTRY IS A STATIC LEARNING FILE

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L2          114 SEA FILE=HCAPLUS ABB=ON  PLU=ON  "KUNITA KAZUTO"/AU
L3            6 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L1 AND L2
L5            6 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L3 AND LITHOGRAP?
L6            4 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L5 AND PHOTOPOLYMER?
L7            1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L6 AND ALKALI(A)SILICA
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L9              STR
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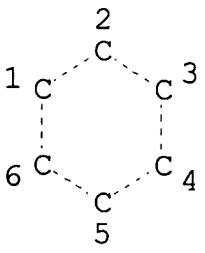

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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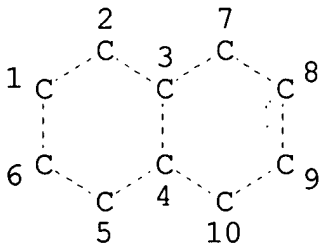
STEREO ATTRIBUTES: NONE
L10 STR



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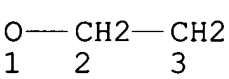
L11 STR



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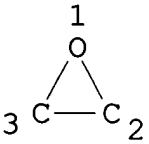
NUMBER OF NODES IS 3

STEREO ATTRIBUTES: NONE
L12 STR



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                 AND L13
L16        74546 SEA FILE=REGISTRY ABB=ON  PLU=ON  L15 AND 1-2/NC
L17              STR
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Cb 1

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GGCAT   IS UNS  AT   1
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ECOUNT  IS M6-X10 C  AT   1

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   1

STEREO ATTRIBUTES: NONE
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L20       202256 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L19
L21         3979 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L20(L)(PHOTOSENS? OR
                 LIGHTSENS? OR SENSIT?)
L22         1421 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L21(L)TEM/RL
L24           42 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L22(L)LITHOGRAPH?(2A)P
                 RINT?
L25          273 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L20(L)LITHOG?(A)PRINT?

L26            1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L25 AND L7
L27           17 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L25 AND (LIGHT OR
                 PHOTO)(A)SENSIT?
L28           24 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L24 AND DEVELOP?
L29           16 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L24 AND (SOLUTION? OR
                 SOLN# OR SOLVENT?)
L30           26 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L28 OR L29
L31           40 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L30 OR L27 OR L26
L32         3258 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L20(L)DEVELOP?
```

```
L33        2205 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L32 AND PHOTO?/SC
L34          56 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L33 AND (LIGHT OR
                PHOTO)(A)SENSIT?
L35          26 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L34 AND (SOLUTION? OR
                SOLN# OR SOLVENT?)
L36          25 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L35 NOT L31
L40          65 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L36 OR L31
L41           8 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L40 AND (ALKALI OR
                SODIUM OR POTASSIUM OR LITHIUM OR AMMONIUM)(A)SILICATE


=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 13:08:08 ON 22 FEB 2005
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=> d 141 ibib abs hitstr hitind

L41  ANSWER 1 OF 8  HCAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:         2004:963462  HCAPLUS
DOCUMENT NUMBER:          141:417961
TITLE:                    Alkaline developing liquid for
                          photosensitive lithographic printing plate
INVENTOR(S):              Konuma, Taro; Suzuki, Toshitsugu
PATENT ASSIGNEE(S):       Konica Minolta Medical & Graphic, Inc., Japan
SOURCE:                   Jpn. Kokai Tokkyo Koho, 34 pp.
                          CODEN: JKXXAF
DOCUMENT TYPE:            Patent
LANGUAGE:                 Japanese
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

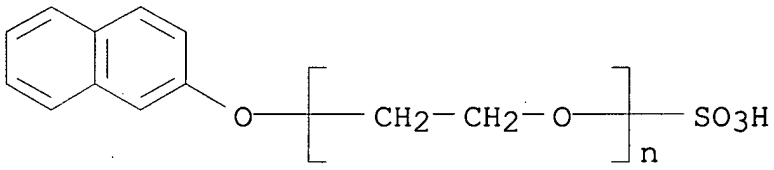
     PATENT NO.           KIND   DATE        APPLICATION NO.          DATE
     ---------------      ----   --------    --------------------
     --------
     JP 2004317835         A2    20041111    JP 2003-112589
                                                                     2003
                                                                     0417
PRIORITY APPLN. INFO.:                       JP 2003-112589
                                                                     2003
                                                                     0417

AB   Title liquid comprises an alkaline substance and water-soluble
surfactant
     and is used to develop the formed image after laser
     exposure on a lithog. printing plate which has a photosensitive
```

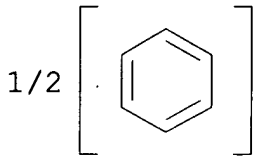
layer formed from a composition including ethylenic monomers, polymerization initiators, and polymer binders. The bubble height during the bubbling (A) and bubble height three min. after bubbling (B) have a B to A ratio of 0.1-0.7.

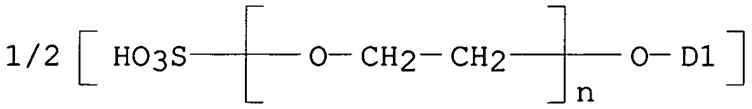
IT **81503-86-8 82009-26-5**
(alkaline **developing** liquid for **photosensitive lithog. printing** plate)

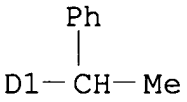
RN 81503-86-8 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-sulfo-ω-(2-naphthalenyloxy)-, sodium salt (9CI) (CA INDEX NAME)



RN 82009-26-5 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-sulfo-ω-[bis(1-phenylethyl)phenoxy]-, sodium salt (9CI) (CA INDEX NAME)







IC ICM G03F007-32
ICS G03F007-00
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST alk **developing** liq photosensitive lithog printing
IT Photolithography
Surfactants
(alkaline **developing** liquid for photosensitive lithog. printing plate)
IT Alcohols, uses
(alkoxylated; alkaline **developing** liquid for photosensitive lithog. printing plate)
IT Polyoxyalkylenes, uses
(mono(alkyl group)-terminated; alkaline **developing** liquid for photosensitive lithog. printing plate)
IT 1312-76-1, **Potassium silicate** 3546-96-1
9002-92-0, Polyethylene glycol monododecyl ether 25638-17-9
37251-67-5, Ethylene oxide-propylene oxide copolymer monodecyl ether 37311-01-6 64366-70-7 **81503-86-8**
82009-26-5 102640-44-8
(alkaline **developing** liquid for **photosensitive lithog. printing** plate)

L41 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:822871 HCAPLUS

DOCUMENT NUMBER: 141:322631
TITLE: Lithographic printing plate precursor
INVENTOR(S): Maemoto, Kazuo; Hotta, Hisashi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 82 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1464513	A1	20041006	EP 2004-11675	20020723
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR, BG, CZ, EE, SK				
JP 2003034090	A2	20030204	JP 2001-221802	20010723
JP 2003034091	A2	20030204	JP 2001-221803	20010723
JP 2003063165	A2	20030305	JP 2001-256331	20010827
EP 1279520	A2	20030129	EP 2002-16280	20020723
EP 1279520	A3	20030618		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				

PRIORITY APPLN. INFO.:		
JP 2001-221802	A	20010723
JP 2001-221803	A	20010723
JP 2001-256331	A	20010827
EP 2002-16280	A3	

2002
0723

AB The invention concerns a lithog. printing plate precursor which does not require **development** and comprises an aluminum substrate, an image-recording layer and a hydrophilic film, and optionally an overcoat layer. The aluminum substrate is electrochem. surface-roughened in aqueous HCl **solution** and is provided with a hydrophilic film having d. 1,000-3,200 kg/m3 and/or porosity 20-70%. Alternatively, the Al substrate has a surface-roughened shape with small pits; the average opening size of the small pits is 0.01-3 m and the ratio of the average depth of the small pit to the average opening size is 0.1-0.5. The image-recording layer comprises ≥2 types of fine particles selected from heat-fusible fine particles, polymer fine particles with a heat-reactive functional group, and a microcapsule containing a heat-reactive compound; ≥1 of the fine particles combines by heat to form an image. Alternatively this layer contains self water-dispersible resin fine particles which combine by heat, and the layer is writable by IR laser exposure. When the overcoat layer comprising a water-soluble resin is present, the image recording layer does not contain a hydrophilic binder resin, but does contain a hydrophobic polymer heat-combinable fine particle, a light-to-heat converting agent and a water-insol. compound with fluidity at 50°. The overcoat layer may contain a hydrophobic polymer fine particles and/or microcapsules; it may also contain a light-to-heat converting agent and have an optical d. at the exposure wavelength that is lower than that of the image recording layer. Printing plates of the invention prevent ablation and have increased printing durability.

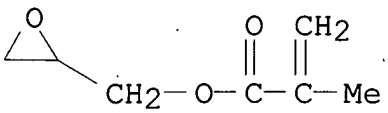
IT **25167-42-4P**, Glycidyl methacrylate-styrene copolymer (particles; **lithog. printing** plate precursor from roughened aluminum with heat-**sensitive** polymer particles and microcapsules in recording layer and overcoat)

RN 25167-42-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

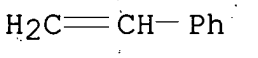
CM 1

CRN 106-91-2
CMF C7 H10 O3



CM 2

CRN 100-42-5
CMF C8 H8



IC ICM B41N003-03
ICS B41C001-10; C25F003-04
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 42
IT 1344-09-8, **Sodium silicate**
(aluminum hydrophilic treatment with; lithog. printing plate precursor from roughened aluminum with heat-sensitive polymer particles and microcapsules in recording layer and overcoat)
IT **25167-42-4P**, Glycidyl methacrylate-styrene copolymer
(particles; **lithog. printing** plate precursor from roughened aluminum with heat-**sensitive** polymer particles and microcapsules in recording layer and overcoat)

L41 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:779269 HCAPLUS
DOCUMENT NUMBER: 141:285849
TITLE: IR-sensitive direct-imaging lithographic printing plate precursors
INVENTOR(S): Nagashima, Akira
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 29 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2004264747 A2 20040924 JP 2003-57123 2003 0304

PRIORITY APPLN. INFO.: JP 2003-57123 2003 0304

AB The title printing plate precursor has an olefinic resin, a novolak resin, and a light-to-heat converting compound on a hydrophilized support, wherein the olefinic resin is a copolymer of H2C=C(-R1)(-X-COOH)(R1 = H, alkyl; X = arylene, -CO-Y-, -OCO-Y-, -Ar-Y-; Y = 2-valent connecting group; Ar = arylene) and (meth)acrylate, a (meth)acrylamide derivative, or a styrene derivative and
wherein the surface of the support is electrochem. roughened in acidic **solution** mainly containing hydrogen chloride. The printing plate precursor shows wide **development** latitude and provides printing plate of high printing durability.

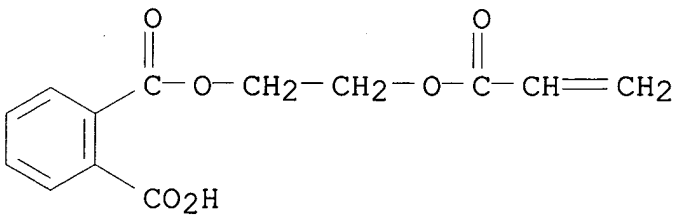
IT **604813-66-3**
(IR-**sensitive** direct-imaging **lithog.** **printing** plate precursors)

RN 604813-66-3 HCAPLUS

CN 1,2-Benzenedicarboxylic acid, mono[2-[(1-oxo-2-propenyl)oxy]ethyl] ester, polymer with butyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

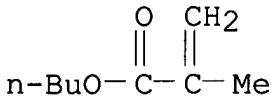
CM 1

CRN 30697-40-6
CMF C13 H12 O6



CM 2

CRN 97-88-1
CMF C8 H14 O2



IC ICM G03F007-033
ICS B41N001-08; B41N003-03; G03F007-004; G03F007-09
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 35
IT 604813-23-2 604813-56-1 604813-57-2 604813-62-9
604813-64-1 604813-65-2 **604813-66-3** 760965-90-0
(IR-**sensitive** direct-imaging **lithog.** **printing** plate precursors)
IT 1344-09-8, **Sodium silicate**
(hydrophilizing agent; IR-sensitive direct-imaging lithog. printing plate precursors)

L41 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:272184 HCAPLUS
DOCUMENT NUMBER: 138:294954
TITLE: Method for developing direct-imaging positive-working lithographic printing plate precursors with specific developer **solution**
INVENTOR(S): Serikawa, Takeshi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003107742	A2	20030409	JP 2001-297245	2001 0927

PRIORITY APPLN. INFO.: JP 2001-297245 2001 0927

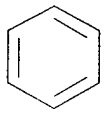
AB The title method for developing direct-imaging pos.-working lithog. printing plate precursors having a **light-sensitive** layer, which contains a light-to-heat converting

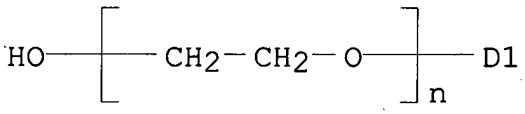
compound and an alkali solubilizable resin with phenolic hydroxy groups, on a support, includes the steps of exposing the plate precursor with a laser beam and developing the plate precursor with a developer **solution**, wherein the developer **solution** has ≥12 pH and contains 10,000 ppm surfactant, an alkali metal hydroxide, and alkali metal silicate. The method provides high contrast images, thick image layers, wide development latitude, and developer of the long service-life.

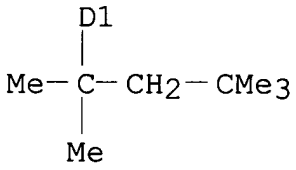
IT **9036-19-5**, Noigen EA 120 **55901-03-6**, Newcol 723 (surfactant; **developer solution**)

RN 9036-19-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy- (9CI) (CA INDEX NAME)

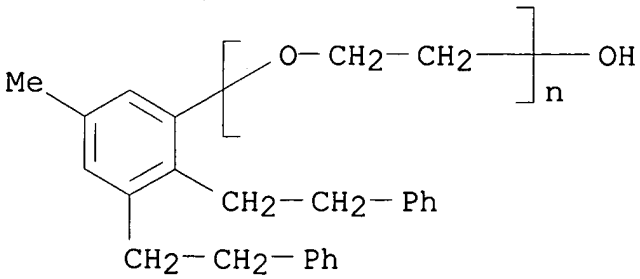






RN 55901-03-6 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-[5-methyl-2,3-bis(2-phenylethyl)phenyl]-ω-hydroxy- (9CI) (CA INDEX NAME)



IC ICM G03F007-32
ICS G03F007-00; G03F007-004
CC 74-6 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
IT Lithographic plates
(method for developing direct-imaging pos.-working lithog. printing plate precursors with specific developer **soln**.)
IT Surfactants
(nonionic, Pluronic TR 702; developer **solution**)
IT Polyoxyalkylenes, processes
(surfactant; developer **solution**)
IT 1312-76-1, **Potassium silicate**
(developer **solution**)
IT 1310-58-3, Potassium hydroxide, processes
(developer **solution**; developer **solution**)
IT 139-07-1, Texnol R 5 1652-63-7, Fluorad FC 135 **9036-19-5**, Noigen EA 120 11140-78-6, Amogen "K" 25322-68-3, PEG 200 **55901-03-6**, Newcol 723 82030-82-8, Surflon S 121 106392-12-5, Pluronic P 84
(surfactant; **developer solution**)

L41 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:272163 HCAPLUS
DOCUMENT NUMBER: 138:294951
TITLE: Preparation of photosensitive lithographic printing plate
INVENTOR(S): Hino, Etsuko; Kasakura, Akio; Ogita, Naohide
PATENT ASSIGNEE(S): Mitsubishi Chemical Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003107683	A2	20030409	JP 2001-302202	2001 0928

PRIORITY APPLN. INFO.: JP 2001-302202 2001 0928

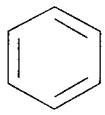
AB A lithog. printing plate comprises, on the surface of a substrate, a pos.-working photosensitive layer, consisting of an alkali-soluble

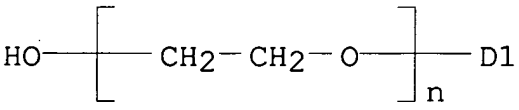
resin and a photothermal converting substance which absorbs light from an image exposure light source and converts to heat. The preparation process comprises scanning exposure to a laser light source and **developing** with a **developing soln** . containing alkali in certain concentration (A weight%) and a surfactant in certain concentration (S weight%) using an automatic **developing** device and is characterized in that the **development** is carried out while replenishing with a replenishment **developing solution** (a) having an alkali concentration higher than A weight% and a replenishment **developing** liquid (b) having a surfactant concentration higher than S weight%.

IT **9016-45-9**, Nikkol NP 15
(preparation of **photosensitive lithog. printing** plate)

RN 9016-45-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy- (9CI) (CA INDEX NAME)





D1— $(CH_2)_8$ —Me

IC ICM G03F007-00
ICS G03F007-004; G03F007-32

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST photosensitive lithog printing plate **developing soln**

IT 1310-58-3, Potassium hydroxide, uses 1312-76-1, **Potassium silicate**
(**alkali** concentration of **developing soln** .; preparation of photosensitive lithog. printing plate)

IT **9016-45-9**, Nikkol NP 15
(preparation of **photosensitive lithog. printing** plate)

IT 11140-78-6 42612-52-2, Nikkol DLP10 156510-75-7, Pionin A 15
(surfactant concentration of **developing solution**;
preparation of photosensitive lithog. printing plate)

L41 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:173064 HCAPLUS
DOCUMENT NUMBER: 138:212836
TITLE: Method for preparing lithographic printing plate
INVENTOR(S): Nagase, Hiroyuki
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 57 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1288722	A2	20030305	EP 2002-18272	20020822
EP 1288722	A3	20031015		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
JP 2003066621	A2	20030305	JP 2001-254289	20010824
JP 2003066622	A2	20030305	JP 2001-254290	20010824
JP 2003066623	A2	20030305	JP 2001-254291	20010824
JP 2003066624	A2	20030305	JP 2001-254292	20010824
US 2003138732	A1	20030724	US 2002-222903	20020819
US 6756183	B2	20040629		
PRIORITY APPLN. INFO.:			JP 2001-254289 A	20010824

JP 2001-254290 A 2001 0824

JP 2001-254291 A 2001 0824

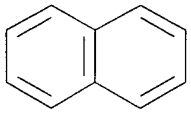
JP 2001-254292 A 2001 0824

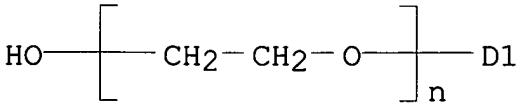
AB A method for preparing a lithog. printing plate comprises the steps of imagewise exposing, to light, a presensitized plate for use in making a lithog. printing plate, which comprises a grained and anodized substrate provided on it with a photopolymerizable **light-sensitive** layer containing a compound having at least one addition-polymerizable ethylenically unsatd. double bond and a titanocene type initiator; and then developing the light-exposed presensitized plate using a developer which comprises a surfactant and a weak acid or a salt of it having a dissociation constant pKa ranging 10-13, and has a pH value ranging 11.5-12.8. The method exhibits excellent development performance, and gives good results to the resultant printing plate in terms of printing durability and scumming. In addition, the change in pH value of the developer is so small that the stable development can be ensured for a long period of time.

IT **69778-08-1**
(nonionic surfactant; developer of preparing **lithog. printing** plate containing)

RN 69778-08-1 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-naphthalenyl-ω-hydroxy- (9CI) (CA INDEX NAME)





IC ICM G03F007-32

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and

Other Reprographic Processes)
Section cross-reference(s): 35, 38

IT Lithographic plates
(preparing lithog. printing plate containing photopolymerizable **light-sensitive** layer)

IT 57-50-1, Saccharose, uses 58-63-9, Inosine 97-05-2, Sulfosalicylic acid 98-73-7, p-tert-Butyl benzoic acid 102-71-6, uses 111-42-2, uses 127-06-0, Acetoxime 147-93-3, Thiosalicylic acid 1312-76-1, **Potassium silicate** 3088-27-5 7664-38-2, Phosphoric acid, uses 7757-83-7, Sodium sulfite 10117-38-1, Potassium sulfite 62546-15-0 106392-12-5, Pluronic P84 125605-97-2
(developer of preparing lithog. printing plate containing)

IT **69778-08-1** 87068-17-5, Pelex NBL
(nonionic surfactant; developer of preparing **lithog. printing** plate containing)

IT 113506-31-3P 182005-17-0P 385843-60-7P 385843-61-8P 483303-17-9P 483303-19-1P
(preparing lithog. printing plate containing photopolymerizable **light-sensitive** layer)

L41 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:113125 HCAPLUS
DOCUMENT NUMBER: 138:161108
TITLE: Method for lithographic plate making using printing plate precursors with specific intermediate layer and specific developing **solution**
INVENTOR(S): Kondo, Shunichi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003043693	A2	20030213	JP 2001-235810	20010803

PRIORITY APPLN. INFO.: JP 2001-235810 20010803

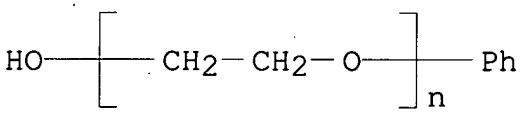
AB The title method uses a lithog. printing plate precursor having an

intermediate layer and a **light-sensitive** layer made of photopolymerizable materials and a developing **soln**., wherein the intermediate layer contains a polymer having phosphoric acid groups in the side chain and wherein the developing **solution** contains an inorg. alkali salt and a nonionic surfactant having polyoxyalkylene ether and has 11.0-12.7 pH. The method provides the printing plate showing the good storageability.

IT **9004-78-8**, Polyoxyethylene phenyl ether **69778-08-1**
(**developing solution**; method for lithog. plate making using printing plate precursors)

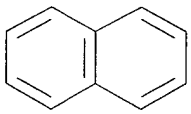
RN 9004-78-8 HCAPLUS

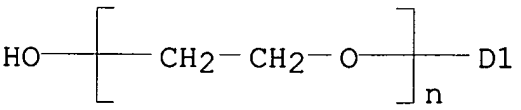
CN Poly(oxy-1,2-ethanediyl), α-phenyl-ω-hydroxy- (9CI) (CA INDEX NAME)



RN 69778-08-1 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-naphthalenyl-ω-hydroxy- (9CI) (CA INDEX NAME)





IC ICM G03F007-11
ICS G03F007-00; G03F007-32

CC 74-6 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
Section cross-reference(s): 35

ST lithog plate precursor intermediate layer developing **soln**

IT 1310-58-3, Potassium hydroxide, uses 1312-76-1, **Potassium silicate 9004-78-8**, Polyoxyethylene phenyl ether **69778-08-1**
(**developing solution**; method for lithog. plate making using printing plate precursors)

L41 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:20988 HCAPLUS
DOCUMENT NUMBER: 138:98218
TITLE: Developer for **photopolymerizable** presensitized plate for use in making **lithographic** printing plate and method for preparing **lithographic** printing plate
INVENTOR(S): **Nagase, Hiroyuki; Kunita, Kazuto**
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 51 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1273972	A1	20030108	EP 2002-14848	20020703
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
JP 2003015318	A2	20030117	JP 2001-203609	20010704
US 2003118951	A1	20030626	US 2002-187605	20020703
US 6641980	B2	20031104		
PRIORITY APPLN. INFO.:			JP 2001-203609 A	20010704

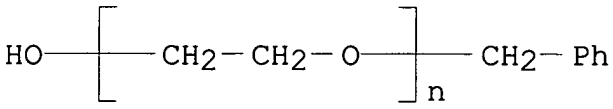
AB A developer for a **photopolymerizable** presensitized plate for use in making a **lithog.** printing plate characterized comprises an **alkali silicate** and a nonionic compound represented by A-W (A = hydrophobic organic group whose logP as determined for A-H is not less than 1.5; W = nonionic hydrophilic organic group whose logP as determined for W-H is less than 1.0), it has a molar ratio: SiO2/M2O (M = alkali metal or an ammonium group) ranging from 0.75-4.0, a pH value ranging from 11.5-12.8 and a

conductivity ranging from 3-30 mS/cm. A method for preparing a **lithog.** printing plate comprises the steps of imagewise exposing, to light, a presensitized plate for use in making a **lithog.** printing plate, which comprises a substrate provided on it with a **photopolymerizable light -sensitive** layer containing a compound having at least one addition-polymerizable ethylenically unsatd. double bond and a **photopolymn.** initiator; and then developing the exposed presensitized plate using the above developer. The developers and the method for making a **lithog.** printing plate according to the present invention can prevent scumming during printing and simultaneously attain sufficient printing durability without impairment of image-forming performance, and the developer can dissolve or disperse stably for a long period of time the compds. which are not soluble in the developer, and therefore the running performance of the developer can be excellent and stabilized.

IT **26403-74-7 26468-79-1 69778-08-1 386214-35-3 386214-38-6 386214-40-0**
(surfactant; developer for **photopolymerizable** presensitized plate for use in making **lithog. printing** plate containing)

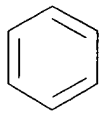
RN 26403-74-7 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-(phenylmethyl)-ω-hydroxy- (9CI) (CA INDEX NAME)

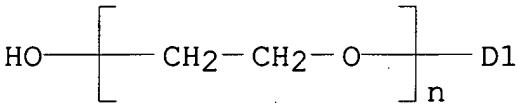


RN 26468-79-1 HCAPLUS

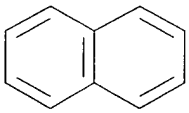
CN Poly(oxy-1,2-ethanediyl), α-[(1,1-dimethylethyl)phenyl]-ω-hydroxy- (9CI) (CA INDEX NAME)

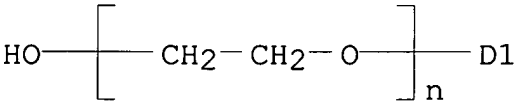


D1 — Bu-t

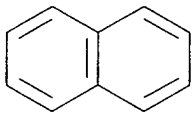


RN 69778-08-1 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-naphthalenyl-ω-hydroxy- (9CI) (CA INDEX NAME)

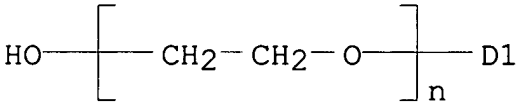




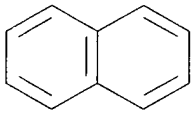
RN 386214-35-3 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-[(1,1-dimethylethyl)naphthalenyl]-ω-hydroxy- (9CI) (CA INDEX NAME)

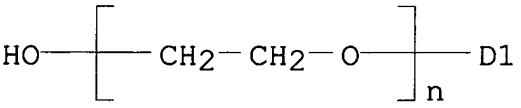


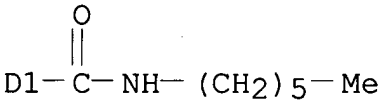
D1—Bu-t



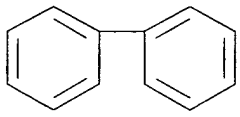
RN 386214-38-6 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-[[(hexylamino)carbonyl]naphthalenyl]-ω-hydroxy- (9CI) (CA INDEX NAME)

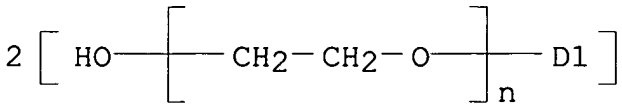






RN 386214-40-0 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α,α'-[1,1'-biphenyl]-ar,ar'-diylbis[ω-hydroxy- (9CI) (CA INDEX NAME)





IC ICM G03F007-32
ICS G03F007-027

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 35, 38

ST developer **photopolymerizable** presensitized plate **lithog** printing

IT **Lithographic** plates
(developer for **photopolymerizable** presensitized plate for use in making **lithog.** printing plate)

IT Polymerization
(**photopolymn.**; developer for **photopolymerizable** presensitized plate for use in making **lithog.** printing plate)

IT 98-73-7 9010-92-8, Styrene-methacrylic acid copolymer 65697-21-4
(additive; developer for **photopolymerizable** presensitized plate for use in making **lithog.** printing plate containing)

IT 64-02-8, Tetrasodium ethylenediaminetetraacetate 77-92-9, Citric acid, uses 56221-71-7
(chelating agent; developer for **photopolymerizable** presensitized plate for use in making **lithog.** printing plate containing)

IT 68-04-2, Sodium citrate 74-89-5, Monomethylamine, uses 75-04-7, Monoethylamine, uses 75-31-0, Monoisopropylamine, uses 75-50-3, Trimeth-ylamine, uses 75-59-2, Tetramethylammonium hydroxide 78-96-6, Monoisopropanolamine 102-71-6, Triethanolamine, uses 107-15-3, Ethylenediamine, uses 108-18-9, Diisopropylamine 109-73-9, n-Butylamine, uses 109-89-7, Diethylamine, uses 110-86-1, Pyridine, uses 110-97-4, Diisopropanolamine 111-42-2, Diethanolamine, uses 121-44-8, Triethylamine, uses 124-40-3, Dimethylamine, uses 141-43-5, Monoethanolamine, uses 144-55-8, Sodium bicarbonate, uses 151-56-4, Ethyleneimine, uses 298-14-6, Potassium bicarbonate 497-19-8, Sodium carbonate, uses 506-87-6,

Am-monium carbonate 584-08-7, Potassium carbonate 866-83-1, Potassium citrate 1066-33-7, Ammonium bicarbonate 1310-58-3, Potassium hydroxide, uses 1310-65-2, Lithium hydroxide 1310-73-2, Sodium hydroxide, uses 1312-76-1, **Potassium silicate** 1330-43-4, Sodium borate 1332-77-0, Potas-sium borate 1344-09-8, **Sodium silicate** 3424-21-3, Triisopropylamine 7558-79-4 7601-54-9, Sodium tertiary phosphate 7722-76-1, Ammonium phosphate 7758-11-4 7778-53-2 11128-98-6, Ammonium borate 12794-95-5, **Ammonium silicate**

(developer for **photopolymerizable** presensitized plate for use in making **lithog.** printing plate containing)

IT 182005-17-0P 385843-60-7P 385843-61-8P 483303-16-8P 483303-17-9P 483303-19-1P

(**photopolymerizable** presensitized plate for use in making **lithog.** printing plate)

IT **26403-74-7 26468-79-1 69778-08-1** 386214-34-2 **386214-35-3 386214-38-6 386214-40-0**

(surfactant; developer for **photopolymerizable** presensitized plate for use in making **lithog.** **printing** plate containing)

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT